

AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions and listings of claims in the application:

1. **(Currently Amended)** A method for manufacturing a glass substrate for an information recording medium, the manufacturing method comprising:

forming a surface layer on a surface of a disk-shaped glass plate having a predetermined composition and a predetermined chemical resistance, with the surface layer having a composition differing from the predetermined composition and a chemical resistance that is lower than the predetermined chemical resistance;

scrubbing the surface in a circumferential direction with an abrasive and a scrub member to form a texture including a plurality of ~~ridge-shaped~~ projections each extending in a circumferential direction of the surface, the scrubbing forming the projections extending over the surface layer and a lower layer adjacent to the surface layer by removing the surface layer and the lower layer; and thereafter

selectively removing an upper portion of the ~~surface layer that is part of the plurality of ridge-shaped~~ projections included in the surface layer with an etching liquid.

2. **(Previously Presented)** The manufacturing method according to claim 1, wherein the etching liquid is alkaline.

3. **(Previously Presented)** The manufacturing method according to claim 1, wherein the glass plate is a multi-component glass material containing at least silicon oxide, and said forming a surface layer includes decreasing the ingredient ratio of at least one component excluding silicon oxide so that the ingredient ratio of silicon oxide in the surface layer is greater than that in a portion excluding the surface layer.

4. **(Original)** The manufacturing method according to claim 3, wherein the multi-component glass material contains at least one of aluminum oxide and alkaline earth metal oxide, and the at least one component is the at least one of aluminum oxide and alkaline earth metal oxide.

5. **(Previously Presented)** The manufacturing method according to claim 1, wherein the surface layer has a thickness of 1 to 7 nm.

6. **(Previously Presented)** The manufacturing method according to claim 1, wherein said forming a surface layer includes immersing the glass plate in a strong acid solution having a pH of 3.0 or less and then immersing the glass plate in a strong alkaline solution having a pH of 10.5 or greater.

7. **(Currently Amended)** The manufacturing method according to claim 1, wherein said forming a texture includes scrubbing the surface so that the ~~ridge-shaped~~ projections reach a lower layer of the surface layer.

8. **(Original)** The manufacturing method according to claim 4, wherein said forming a surface layer includes an acid process, for immersing the glass plate in a strong acid solution and dissolving the at least one of aluminum oxide and alkaline earth metal oxide in the strong acid solution to form the surface layer, and an alkaline process, for subsequently immersing the glass plate in a strong alkaline solution, the alkaline process uniformly etching the surface layer to adjust the thickness and adjust the composition of the surface layer.

9. **(Previously Presented)** The manufacturing method according to claim 3, wherein the ingredient ratio of silicon oxide in the surface layer is greater than 1.0 time but less than or equal to 1.4 times the ingredient ratio of silicon oxide in the portion excluding the surface layer.

10. **(Currently Amended)** A method for manufacturing a glass substrate for an information recording medium, the manufacturing method comprising:

preparing a disk-shaped glass plate having a predetermined composition and a predetermined chemical resistance;

polishing the glass plate to form a smooth surface;

chemically processing the smooth surface to form a surface layer having a composition differing from the predetermined composition, a chemical resistance that is lower than the predetermined chemical resistance, and a first thickness;

forming a texture in a circumferential direction, the texture including a plurality of ~~ridge-shaped~~ projections on the surface, each of the projections extending in a circumferential direction, wherein the ~~ridge-shaped~~ projections extending over the surface layer and a lower layer adjacent to the surface layer are formed by removing the surface layer and the lower layer; and thereafter

selectively removing only part of the plurality of ~~ridge-shaped~~ projections included in the surface layer so that the plurality of ~~ridge-shaped~~ projections have flat upper surfaces that are flush with each other.

11. **(Original)** The manufacturing method according to claim 10, wherein said forming a surface layer includes scrubbing the surface with a scrub member in a circumferential direction of the glass plate.

12. **(Original)** The manufacturing method according to claim 10, wherein said removing includes uniformly etching the surface layer so that the surface layer remaining on the lower layer has a second thickness that is less than the first thickness.

13. **(Withdrawn)** A glass substrate for an information recording medium, the substrate comprising:

a surface having a predetermined arithmetic mean roughness, Ra, and a maximum peak height, Rp wherein the arithmetic mean roughness is measured with an atomic force microscope, and the ratio of the maximum peak maximum peak height relative to the arithmetic mean roughness is 10 or less.

14. **(Withdrawn)** The glass substrate according to claim 13, wherein the arithmetic means roughness is 1.5 nm or less, and the maximum peak height is 10 nm or less.

15. **(Withdrawn)** The glass substrate according to claim 13, wherein the glass substrate is disk-shaped, the surface has a texture including a plurality of projections extending in a circumferential direction of the glass substrate, and the plurality of projections have upper ends that are aligned at a predetermined level.

16. **(Withdrawn)** The glass substrate according to claim 15, wherein the plurality of projections have flat upper surfaces.

17. **(Withdrawn)** The glass substrate according to claim 15, wherein the plurality of projections have flush upper surfaces.